BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Laminin Antibody Picoband®

Catalog Number: A03522-1

About LAMA1/A2/A3/A4/A5/B1/B2/B3/B4/C1/C2/C3

Tumor necrosis factor ligand superfamily member 14 is a protein that in humans is encoded by the TNFSF14 gene. TNFSF14 has also been designated as CD258, as well as LIGHT. It was mapped on chromosome 19p13.3. The protein encoded by this gene is a member of the tumor necrosis factor(TNF) ligand family. This protein may function as a costimulatory factor for the activation of lymphoid cells and as a deterrent to infection by herpesvirus. It has been shown to stimulate the proliferation of T cells, and trigger apoptosis of various tumor cells. This protein is also reported to prevent tumor necrosis factor alpha mediated apoptosis in primary hepatocyte. Two alternatively spliced transcript variant encoding distinct isoforms have been reported.

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Overview

Product Name	Anti-Laminin Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Laminin Antibody Picoband® catalog # A03522-1. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P25391

Technical Details

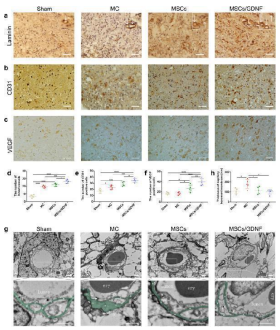
Immunogen	Human fibroblasts derived.

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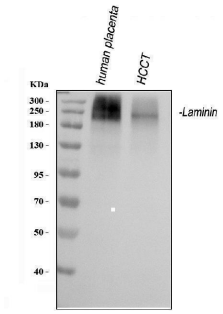
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Human

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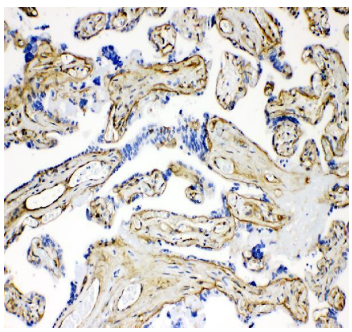
Anti-Laminin Antibody Picoband® (A03522-1) Images



The effect of MSCs/GDNF transplantation on blood vessels and associated proteins. a - c The images of laminin, CD31, VEGF IHC staining in ipsilateral striata of rats. d - f The numbers of blood vessels, CD31- and VEGF-positive cells in the striata of the different groups (n = 5 per group). g Representative electron micrographs of brain capillaries in the different groups. The arrowhead indicates a tight junction between two endothelial cells. Asterisks show the basement membrane of the brain capillary. NCe, the nucleus of the endothelial cell; ery, erythrocyte; e, endothelial cell; p, pericyte; a, foot of astrocyte; m, mitochondrion. h Quantitative analysis of the thickness of capillary basement membrane. Scale bar, 100 um (a-c) and 1 um (g). * P < 0.05, *** P < 0.001, and **** P < 0.0001 Index in PubMed under a CC BY license. PMID: 38008847



Western blot analysis of Laminin using anti-Laminin antibody (A03522-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human HCCT tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Laminin antigen affinity purified polyclonal antibody (Catalog # A03522-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Laminin at approximately 200 kDa. The expected band size for Laminin is at 177-200 kDa.



IHC analysis of Laminin using anti-Laminin antibody (A03522-1). Laminin was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Laminin Antibody (A03522-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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Anti-Laminin Antibody

For Research Use Only. Not for use in diagnostic procedures.